

WHAT IS CLAIMED IS:

1. A golf club head comprising:

a first portion forming a part of a head body of the golf club head, the first portion being made of a first metal material and including an abutting  
5 portion;

a second portion forming another part of the head body of the golf club head, the second portion being made of a second metal material and including an abutting portion; and

an intermedia layer made of a third metal material, the intermedia  
10 layer being positioned between the abutting portion of the first portion and the abutting portion of the second portion, the intermedia layer and the abutting portion of the first portion being joined together by welding friction, the intermedia layer and the abutting portion of the second portion being joined together by welding friction, thereby forming a golf club head product.

15 2. The golf club head as claimed in claim 1, wherein the abutting portion of the first portion is formed on an extension extending from a heel of the head body, and wherein the abutting portion of the second portion is formed on a hosel.

20 3. The golf club head as claimed in claim 1, wherein the abutting portion of the first portion is formed on a bottom wall delimiting a compartment in the head body, and wherein the abutting portion of the second portion is formed on a weight member.

4. The golf club head as claimed in claim 1, wherein the first metal material, the second metal material, and the third metal material are different from one another, a metallurgical compatibility between the first metal material and the third metal material being better than that between the first metal material and the second metal material, a metallurgical compatibility  
5 between the second metal material and the third metal material being better than that between the first metal material and the second metal material.

5. The golf club head as claimed in claim 4, wherein the first metal material is selected from the group consisting of stainless steel, titanium alloy,  
10 carbon steel, low-alloy steel, cast iron, nickel-base alloy, structural steel, Fe-Mn-Al alloy, and super alloy.

6. The golf club head as claimed in claim 4, wherein the second metal material is selected from the group consisting of stainless steel, titanium alloy, carbon steel, low-alloy steel, cast iron, nickel-base alloy, structural steel, Fe-  
15 Mn-Al alloy, and super alloy.

7. The golf club head as claimed in claim 4, wherein the third metal material is selected from the group consisting of niobium, chromium, aluminum, iron, zirconium, titanium, vanadium, tantalum, sliver, nickel, tungsten, and alloys thereof.

20 8. The golf club head as claimed in claim 2, wherein the abutting portion of the extension includes an annular wall for receiving the intermedia layer before friction welding.

9. The golf club head as claimed in claim 2, wherein the abutting portion of the hosel includes an annular wall for receiving the intermedia layer before friction welding.

10. The golf club head as claimed in claim 1, wherein the intermedia  
5 layer is tablet-like, powdery, or pasty.

11. The golf club head as claimed in claim 1, wherein the intermedia layer is provided on at least one of the abutting portion of the first portion and the abutting portion of the second portion by one of electroplating and spraying before friction welding.

10 12. The golf club head as claimed in claim 1, wherein each of the abutting portions includes a surface roughness smaller than  $Ra\ 25\ \mu\text{m}$ .